

(19)



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(11)

EP 0 742 287 A2

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
13.11.1996 Bulletin 1996/46

(51) Int. Cl.⁶: C12Q 1/68, C07H 21/00,
B01J 19/00

(21) Application number: 96303245.3

(22) Date of filing: 09.05.1996

(84) Designated Contracting States:
DE FR GB IT NL

(30) Priority: 10.05.1995 US 440742
03.04.1996 US 630427

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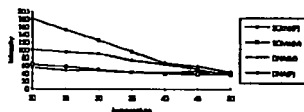
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(54) Modified nucleic acid probes

(57) Oligonucleotide analogue arrays attached to solid substrates and methods related to the use thereof are provided. The oligonucleotide analogues hybridize to nucleic acids with either higher or lower specificity than corresponding unmodified oligonucleotides. Target

nucleic acids which comprise nucleotide analogues are bound to oligonucleotide and oligonucleotide analogue arrays.

3:3 DNA target on 30mer/30mer 5-mer probe/mismatch probe
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15µM)



3:3 target oligonucleotide on 30mer/30mer 5-mer probe/mismatch probe
(10 nM, 5x SSPE, 20°C-50°C, 90 min wait, bb4, 15µM)

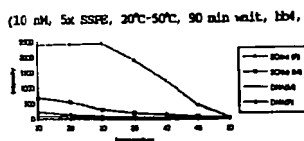


Figure 1A

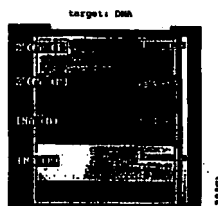


Figure 1B

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